

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P014167WO IJF	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 03/ 02836	International filing date (day/month/year) 02/07/2003	(Earliest) Priority Date (day/month/year) 02/07/2002
Applicant OXFORD BIOMEDICA (UK) LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☒ furnished subsequently to this Authority in written form.

☒ furnished subsequently to this Authority in computer readable form.

☒ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☒ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

5T4 ANTIGEN EXPRESSION AS A MARKER FOR STEM CELL DIFFERENTIATION

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/03/02836

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/569 C12N15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MEDLINE, PAJ, WPI Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 312 683 B1 (CARROLL MILES WILLIAM ET AL) 6 November 2001 (2001-11-06) column 6, line 38 -column 9, line 24 ---	18
A	EP 0 336 562 A (CANCER RES CAMPAIGN TECH) 11 October 1989 (1989-10-11) the whole document ---	1-20
A	NIWA H ET AL: "Quantitative expression of Oct-3/4 defines differentiation, dedifferentiation or self-renewal of ES cells." NATURE GENETICS. UNITED STATES APR 2000, vol. 24, no. 4, April 2000 (2000-04), pages 372-376, XP002155942 ISSN: 1061-4036 the whole document -----	1-20



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

17 December 2003

Date of mailing of the international search report

02/01/2004

Name and mailing address of the ISA

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

In view of the passage on page 29, paragraph 4 of the description, it is evident

that the subject-matter of claims 18-20 comprises a method of in vivo treatment of the human/animal body (effecting 5T4 activity in its native environment), the search has therefore been carried out and based on the alleged effects of the agent.

Continuation of Box I.1

Claims Nos.: 1-20 'partially!'

Rule 39.1(iv) PCT - Diagnostic method practised on the human or animal body.

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 03/02836

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 1-20 'partially!
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP03/02836

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6312683	B1	06-11-2001	AU 760287 B2 08-05-2003
		AU 1773299 A	12-07-1999
		CA 2315269 A1	01-07-1999
		CN 1285000 T	21-02-2001
		EP 1042493 A1	11-10-2000
		GB 2356200 A ,B	16-05-2001
		WO 9932646 A1	01-07-1999
		GB 2334257 A ,B	18-08-1999
		GB 2345062 A ,B	28-06-2000
		JP 2002516065 T	04-06-2002
		US 2003147907 A1	07-08-2003
EP 0336562	A	11-10-1989	AT 123652 T 15-06-1995
		AU 3353989 A	22-09-1989
		DE 68923027 D1	20-07-1995
		EP 0336562 A1	11-10-1989
		EP 0403559 A1	27-12-1990
		WO 8907947 A1	08-09-1989
		IE 890720 L	04-09-1989
		US 5869053 A	09-02-1999
		ZA 8901686 A	29-11-1989